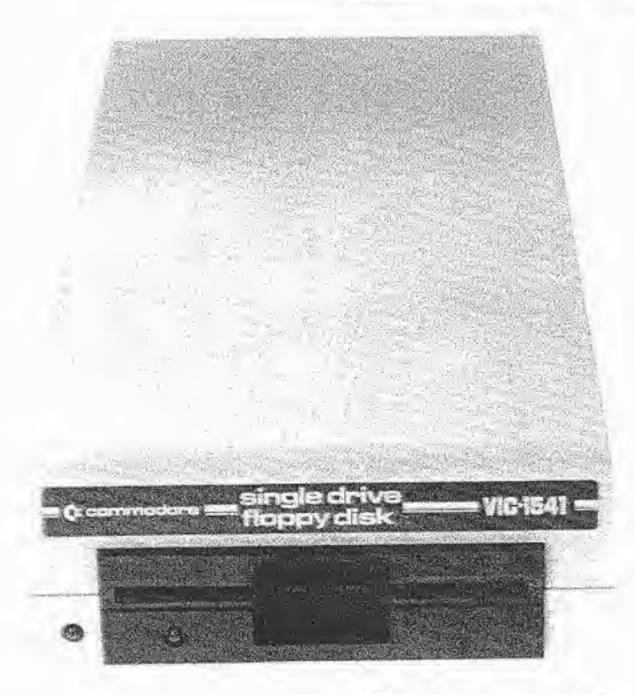
Commodore Single Disk Drive

Technical Manual

Model 1540/1541





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Chapter One

1.1 Scope

In this chapter, a desciption is made of the proceedures necessary for servicing the Model 1540/1541 Floppy Disk Drive.

1.2 Unpacking

Special care should be exercised during unpacking not to damage the unit.

Unpacking proceedures are as follows:

- a) Remove cardboard sleeve from styro-foam box
- b) Open 'styro-foam' box and remove drive
- c) Check the drives front door for proper operation

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1.3 Protection against noise

A week signal from the media is detected in the head section of the drive. Hence, do not install the drive near a TV set or other areas where electromagnetic noise is generated. (i.e. motors, airconditioners, etc)

1.7 Input/Output Cable

The length of the cable between the host and the drive (between the host and the last drive when the drives are daisy chained) should not exceed 5 meters (16 feet).

1.8 DC power source

The drive is powered by a internal power supply providing the drive with +12V and +5V.

1.9 Initial inspection

The drive can be briefly inspected for its operation by the following proceedure. Install the drive, connect the power and I/O cables. Turn drive on and make sure the front panel power lamp is on. Proceed to step 2.2.

1.10 Outline of functions

The 1540/1541 Minifloppy Disk Drive mechanism is composed of the data read/write head, track positioning mechanism, spindle drive mechanism and eject mechanism.

1.11 Read/Write Head

The Read/Write head uses a glass-bonded, ferrite/ceramic head. Track-to-track erasing is accomplished by the straddle erase method. The surface of the Read/Write head is mirror-ground to minimize weear of the head and media. Also, the head is desighned in such a way that the maximum signal can be obtained from the media surface.

1.12 Track positioning mechanism

Positioning of the Read/Write Head is accomplished by a stepping motor and steel belt. The stepping motor rotates clockwise or counter-clockwise by two steps per track. The control circuit on the logic board selects the direction and number of step to the desired track.

1.13 Spindle drive mechanism

The spindle drive motor operates on 12 VDC and turns the spindle, through a belt drive, at 300 revolutions per minute. The speed of the drive motor is controlled by a feedback signal from a tachometer which is housed in the drive motor assembly. The feedback signal controls a servo amp that supplies the 12 VDC drive current.

1.14 Eject mechanism

When the media is inserted in the Disk Drive and the door is closed the media is clamped by the spindle and hub. At this time the ejector mechanism is loaded by the insertion of the disk and locked. When the door is opened, the ejector mechanism is unlocked and the media pops out of the door.

2.1 Mechanism Explanation

The 1540/1541 mechanism is installed in the system horizontally, however the drive will fuction if mounted vertically. The mechanical parts of the drive include an aluminum chassis, a stepping motor, head positioning assembly, drive motor, a hub and spindle assembly for centering and retaining the media during operation. The magnetic head is of a glass ceramic construction.

2.2 Function explanation

The drive is itself an independent memory device. The drive is composed of a media clamp rotating mechanism, ahead positioning mechanism and an eject mechanism. When the front door opens, the media can be inserted. All positioning operation excluding insertion and removal of the media are controlled by the internal guide mechanism. Closing the front door causes the media clamp mechanism to operate. Two operations are performed in the following order:

- a) The media is centered.
- b) The media is clamped and retained between the spindle and the hub.

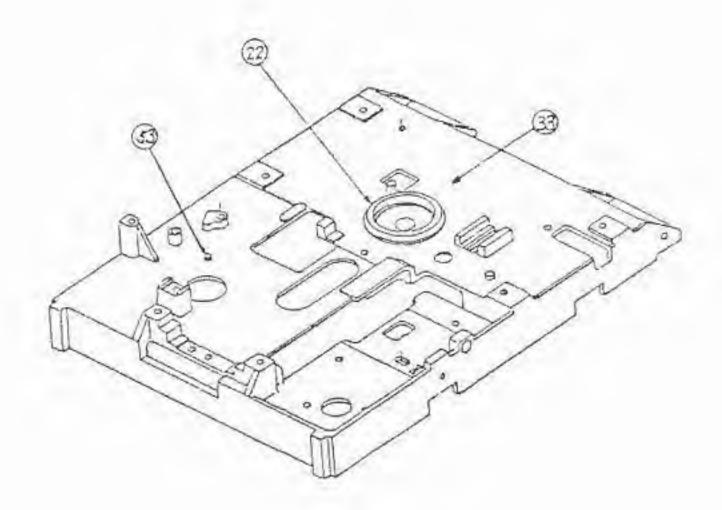
The spindle and hub rotate at 300 r.p.m. through a closed-loop control circuit employing a D.C. motor/tachometer. It is important that the relationship between the head and the media is maintained correctly during operation. For this purpose, a pressure pad is used to hold and press down the media(about 12g) from the opposite side of the head, to maintain the correct contact with the head. This head assembly is coupled by a metal band to a four phase stepping motor the performs the track positioning. One step of the stepping motor corresponds to a 1/2 track movement. Use of a high-speed stepping motor and metal band drive, this series of disk drives can perform access operations at a very high speed.

2.3 Assembly Proceedure

- 2.3.1 The housing assembly; install the eject pin and the spindle.
- 2.3.2 The housing assembly; on the reverse side install the spindle pulley.

2.3.3 FIG 1, The housing unit.

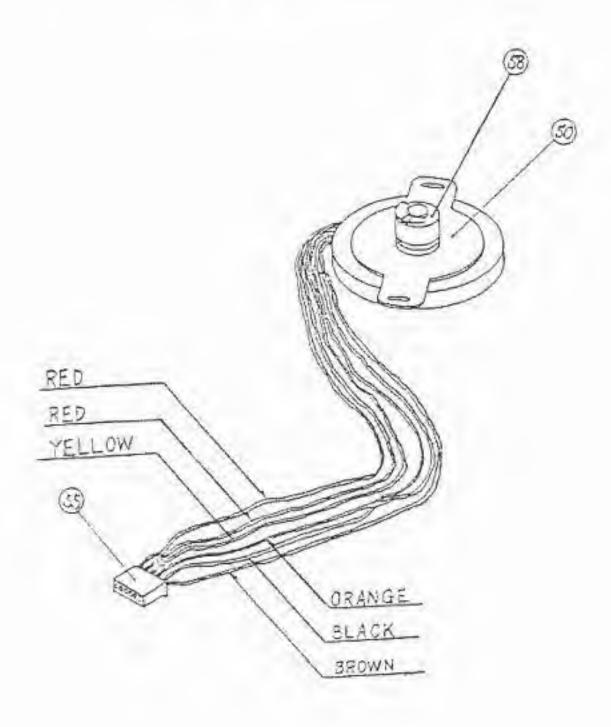
art	Desciption
22	spindle
33	housing assembly.
53	eject pin



2.3.4 The stepping motor assembly; install the stepping pulley.

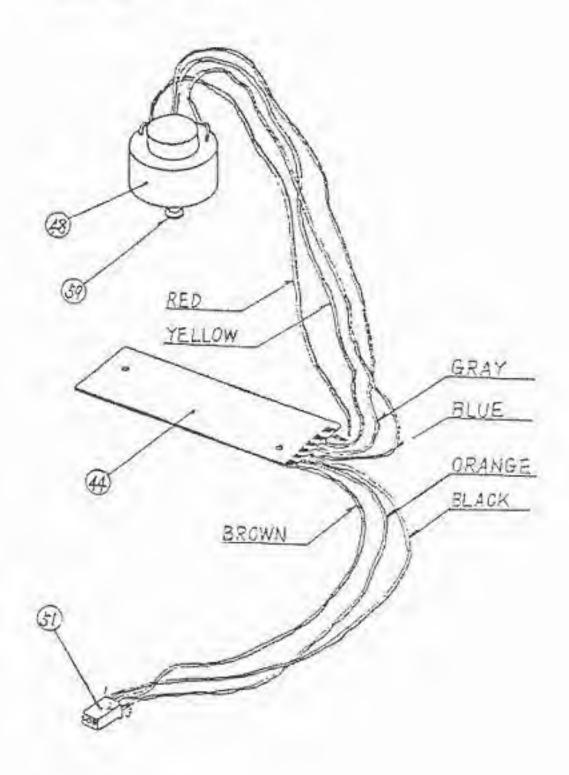
2.3.5 FIG 2, The stepping motor unit

Part	Description
50	stepping motor assembly
55	connector housing
58	stepper pulley

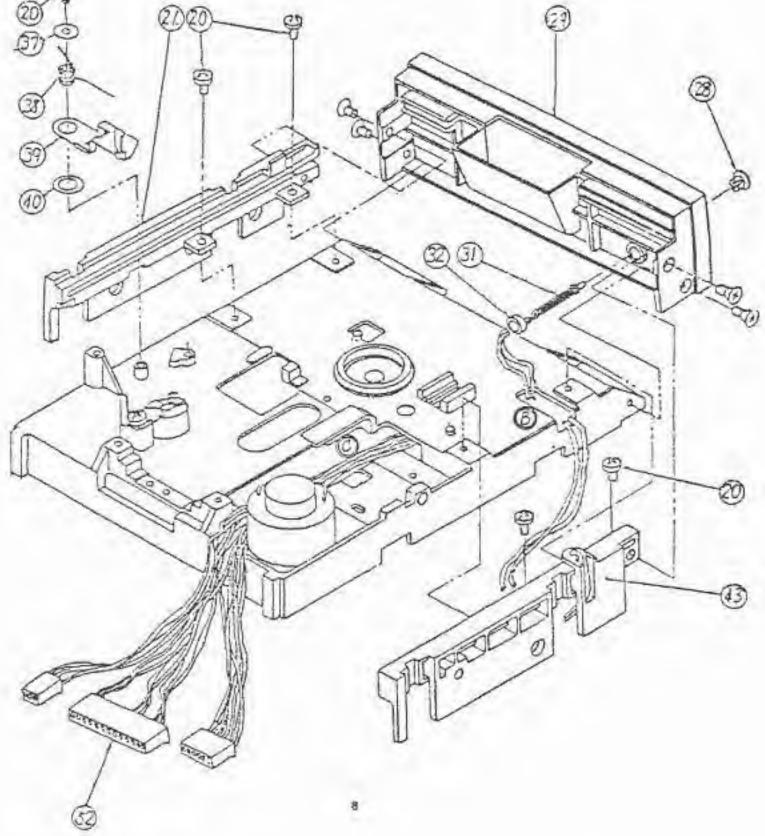


- 2.3.6 The D.C. motor assembly; install the motor pulley.
- 2.3.7 FIG 3, D.C. motor and control PCB

Part	Description
44	motor control PCB
48	D.C. motor
51	connector housing
59	D.C. motor pulley



Part 20 21 28 29 30 31 32	Description binder screw diskette guide LED clamp front panel Flush screw LED assembly LED holder ring	Part 37 38 39 40 43 52	Description washer eject spring eject plate slider diskette guide connector housing
号			
0)	2020- 00		63



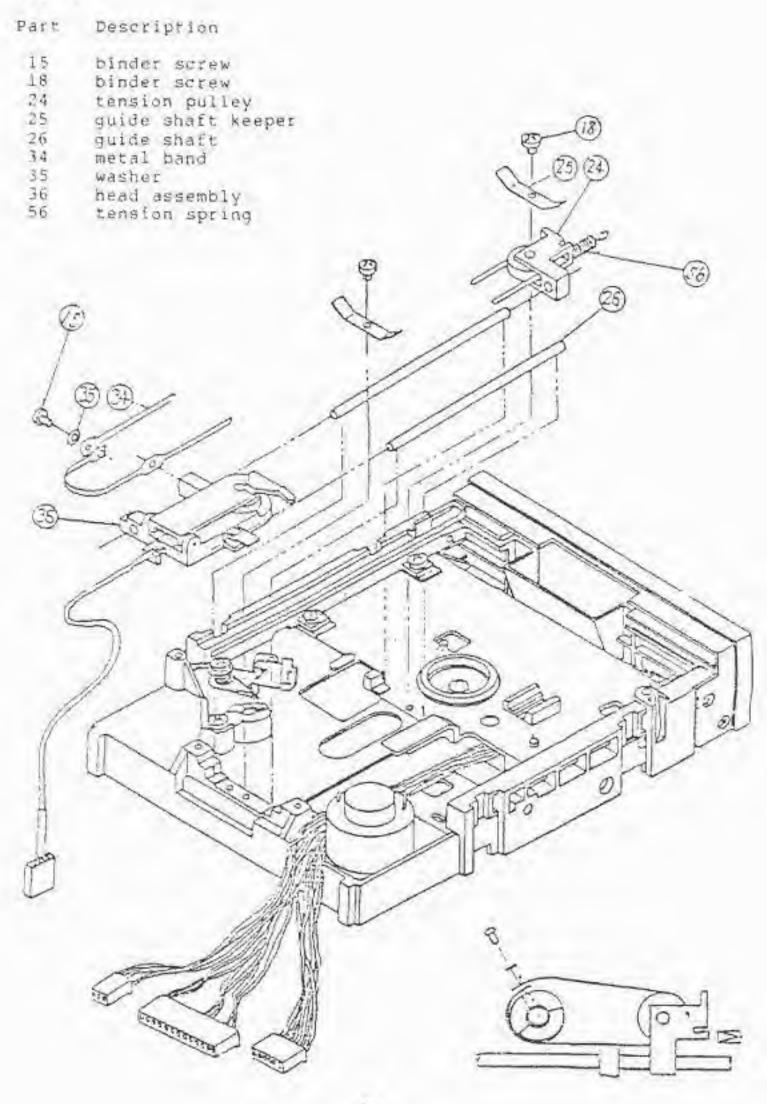
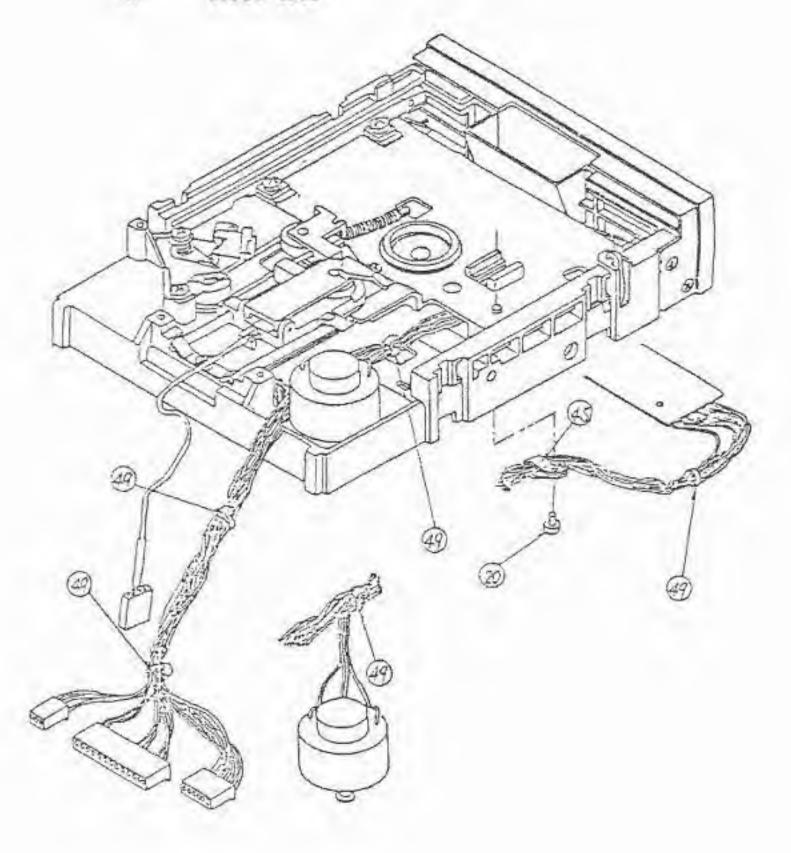
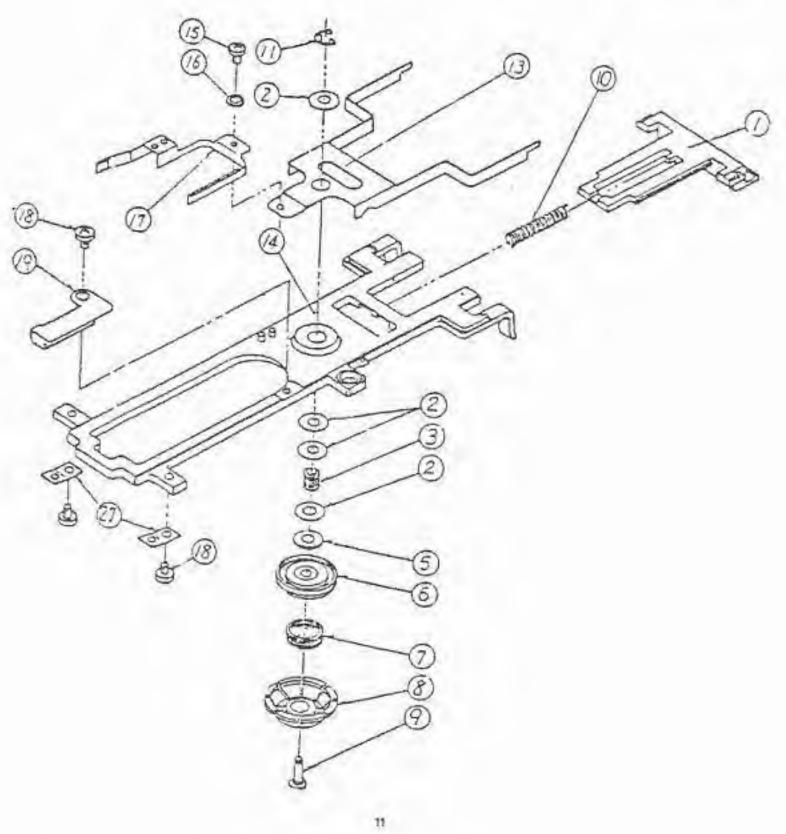


FIG 8

art	Description
20	binder screw
45	cable clamp
49	cable ties

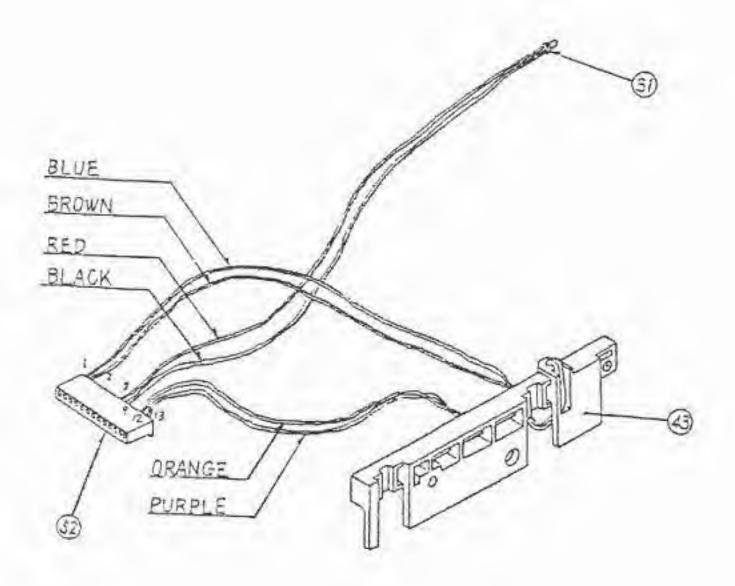


Description	Part	Description
door assembly collar clamp spring thrust washer collet assembly hub spring hub hub shaft door spring	13 14 15 16 17 18 19 27 60	hub support hub frame binder screw spring washer arm support assembly binder screw pad plate assembly hinge spring collet collet bearing
	door assembly collar clamp spring thrust washer collet assembly hub spring hub shaft	door assembly 13 collar 14 clamp spring 15 thrust washer 16 collet assembly 17 hub spring 18 hub 19 hub shaft 27 door spring 60



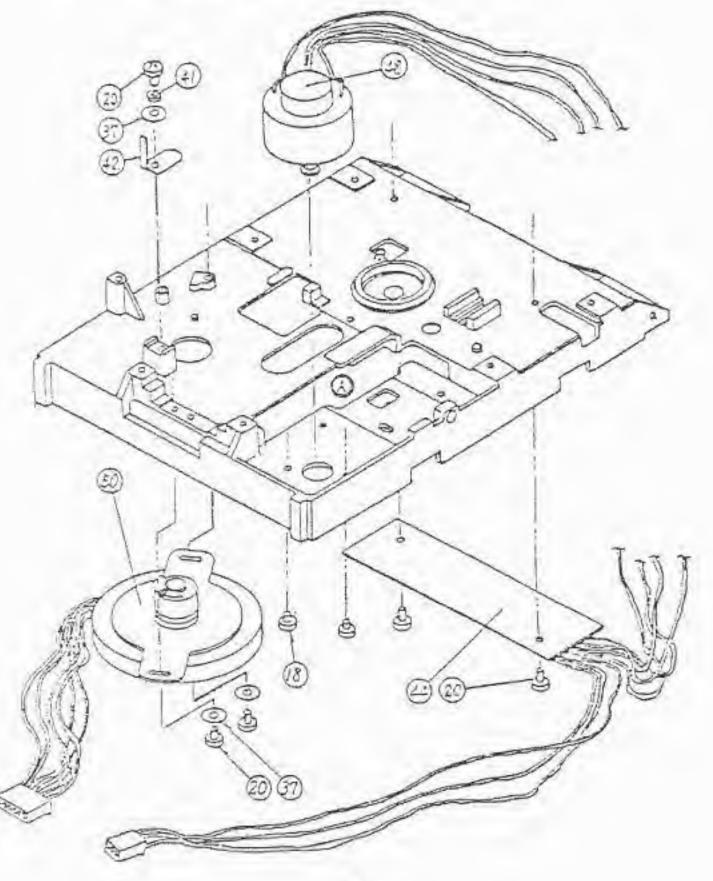
2.3.8 FIG. 4, Diskette guide, LED assembly and connector housing.

Part	Description
31	LED assembly
43	diskette guide
52	connector housing



- 2.3.9 Secure the D.C. motor from the reverse side of the housing assembly with two screws.
- 2.3.10 Put the motor control PCB into hole 'A' and serure it with two screws.
- 2.3.11 Secure the stepping motor with two screws.
- 2.3.12 Secure the carraiage stopper with a screw.
- 2.3.13 Install the connector housing '52' into the hole 'B' and remove through hole 'C'.
- 2.3.14 Sercure the two diskette guides '21' and '43' with two screws each.
- 2.3.15 Install the LED holder in the front panel.
- 2.3.16 Insert the LED assembly into the LED holder ring.
- 2.3.17 Install the led into the LED holder, then push the LED holder ring onto the LED holder.
- 2.3.18 Attach the front panel with four flush screws.
- 2.3.19 Secure the eject plate with a screw.
- 2.3.20 Wind the metal band around the tension pulley.
- 2.3.21 Insert the guide shafts into the head assembly. Install the tension pullet as shown in figure 8
- 2.3.22 Secure the guide shaft keepers by two screws each.
- 2.3.23 Wind the metal band around the stepper pulley and secure it with a screw to the stepper motor pulley.
- 2.3.24 Hook the spring to the tension pulley and install unit in the slot in the housing assembly.
- 2.3.25 Hook the opposite end of the spring to the housing assembly.
- 2.3.26 Pasten cable ties to the cables.
- 2.3.27 Secure the cable clamp with a screw as shown in FIG 8.
- 2.3.28 Secure the arm support assembly with a screw to the hub support.
- 2.3.29 Insert the hub shaft into the hub, the hub spring, the collet assy, the thrust washer, the collar, the clamp spring and two collars.
- 2.3.30 Insert the hub shaft into the frame and the hub support and fasten it at the E-washer.
- 2.3.31 Set the door assembly and the door spring at the hub frame.
- 2.3.32 Secure the pad plate assembly with a srew to the frame at the location shown in FIG 9
- 2.3.33 Secure the two hinge springs with two srews each.

Part	Description
18	binder screw binder screw
37 41 42	washer spring washer
44	motor control PCB
20	stepping motor assembly

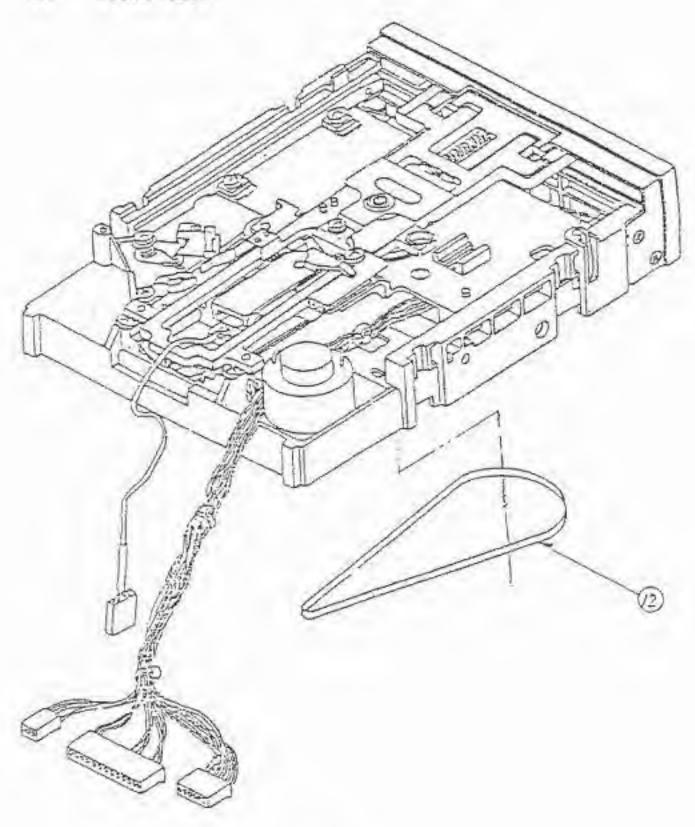


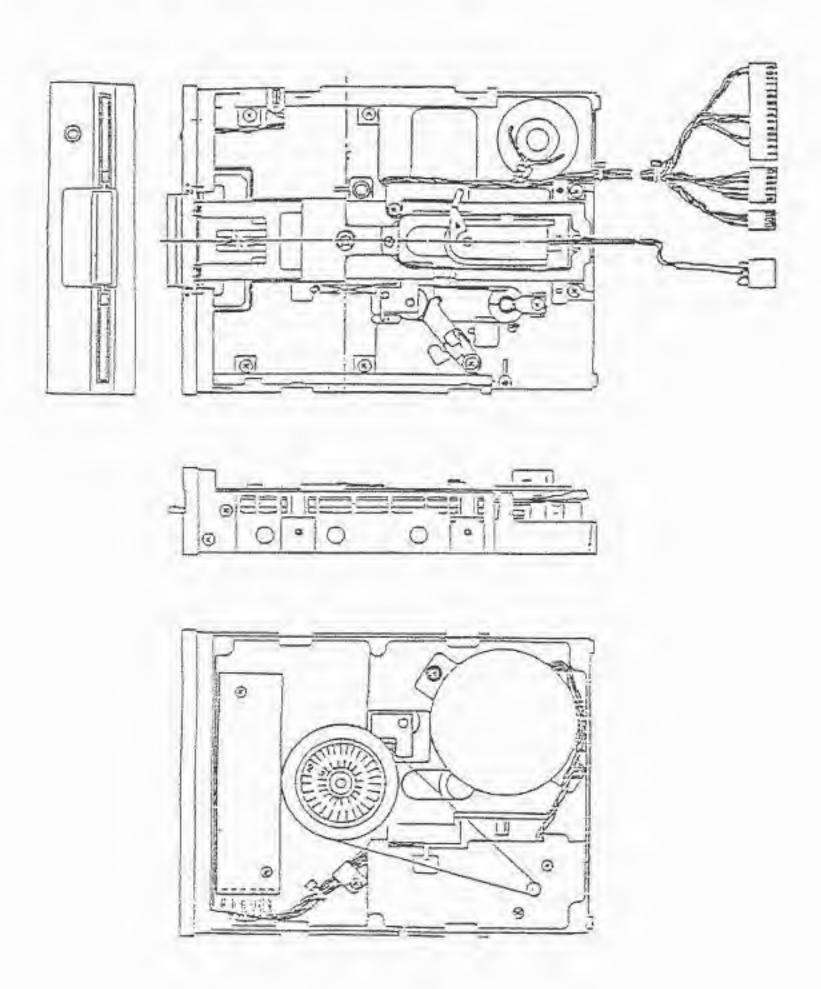
- 2.3.36 Place the belt over the D.C. motor pulley and partially on the spindle pulley.
- 2.3.37 By turning the spindle pulley the rest of the belt will seat completely on the pulley.

2.3.38 FIG 10

Part Description

12 drive belt





3.1 Description

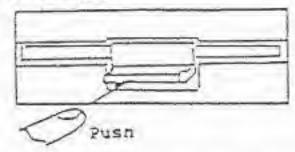
Since the disk drive is placed under direct control of the interface and power supply, no special proceedure is required for starting and operation.

3.2 Operating proceedure

Make sure that the power supply and I/O connector are connected, then insert the disk in accordance with the following proceedure.

3.2.1 Inserting the media

- a) Apply DC voltage to the drive.
- b) Open the front door.



- c) With the index hole and write protect notch being placed on the left side of the jacket, push the media in, when the media is fully inserted the loacking action can be felt.
- d) Push the door downward and close the door so that it is locked firmly

3.2.2 Extracting the media

- a) Open the front door. The media will pop out automatically to a position where you can extract it easily.
- b) For protection of the recorded data, the media should always be stored in its envelope.
- c) Close th door of the drive.

3.3 Media handling proceedure

Since the media has been sudjected to awrite operation i naturally contains imformation, adequate attention must be paid to its handling.

In order to extend the life of the media and eliminate the causes of errors, it is best to take the following steps:

- a) When writing something on the jacket label of the media, do not use a ball point pen or pencil, use felt-tipped pens.
- b) Do not hold the edges of the media with paper clips or the like.
- c) Do not touch the media exposed in the slot of the jacket.
- d) Do not attempt to clean the media.
- e) Do not keep the media in the areas where there is a strong magnetic field.
- f) The diskette should be kept in its jacket.
- g) Special care should be exercised so that the media is kept free from liquid, dust, metal particles, etc.
- h) Take care not to exceed the following environmental conditions:

Temperature 10 to 51°C Relative humidity 8 to 80 %

3.4 Seek error

Few seek errors will be experienced due to the low stepping rate, less than 12 msec/track. In case of a seek error, however, recalibration of track position can be performed. This can be done by repeatedly stepping the head towards track 0 untill track 0 status is detected.

3.5 Write error

In order to check the quality of the data, perform a read-afterwrite operation. When data can not be read, rewrite that track and sector once again.

When data can not be read after four such operations track is defective.

3.6 Read error

What happens quite often when performing a read operation is a soft error. A soft error is defined to be a read error which is recoverable by making ten or less read operations. However, in the event no recovery is made in ten operations, move one step from the track in the same direction as the previous step, then return one step. If this fails to read the data, this error is unrecoverable.

3.7 Description

Periodic maintenance is indispensable so that this type of peripherial equipment operates properly. It is particularly important to periodically clean the head and check the load pad. Repairs and adjustments should be made in accordance with the proceedures below.

3.8 Head Cleaning

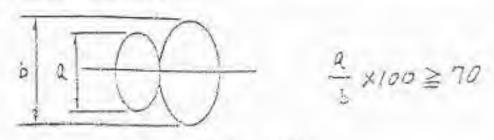
Check for excessive dust or magnetic oxide on the load pad. With the door open (do not move upper arm greater that what is provided by opening the front door) clean head with lint free cotton cloth or 'Q-tip' in 91/ isopropyl alcohol. Wipe the head carefully to remove any dust and/or oxide.

3.9 Adjustment proceedure

In case of a malfuction or parts replacement, make the following adjustments. In order to maintain the interchangability of the media between drives it is desirable check each drive against a master alignment diskette.

3.9.1 Track adjustment (radial track)

- a) Connect I/O cable an restore the head to track 00.
- b) Insert a 48tpi alignment diskette and close the door.
- c) Connect two oscilloscope probes to pin 1 and pin 14 of UH6 (592), set oscilloscope to angbraic add at 50mV/cm and 200 msec/div.
 - d) Load the head and allow it to seek to track 16, check for cats eye wave form. When the cats eye lobe ratio is 70/ or less, loosen the stepping motor mounting screws, turn the stepping motor to obtain the lobe ratio of 90/ or less.
- e) After allowing the head to track 34, return it to track 16 and recheck the cats eye. If the ratio is correct tighten the stepping motor screws.



Cats eye lobe ratio

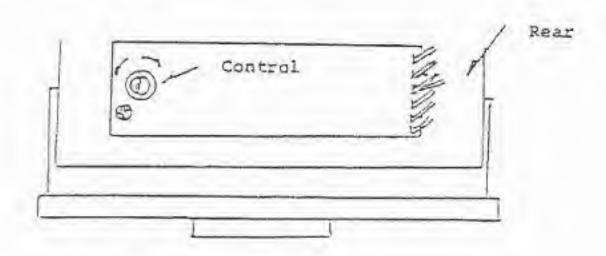
3.9.2 Track 00 adjustment

The drive is not provided with a track 00 sensor. To adjust, let the head over step in the track 00 direction and adjust the liniter postion to obtain a clearance less than 0.25mm (0.01inches).



3.9.3 Speed control

Turn the variable resistor on the motor control board untill the tachometer disk on the spindle pulley appears stationary when viewed with a fluorescent lamp.



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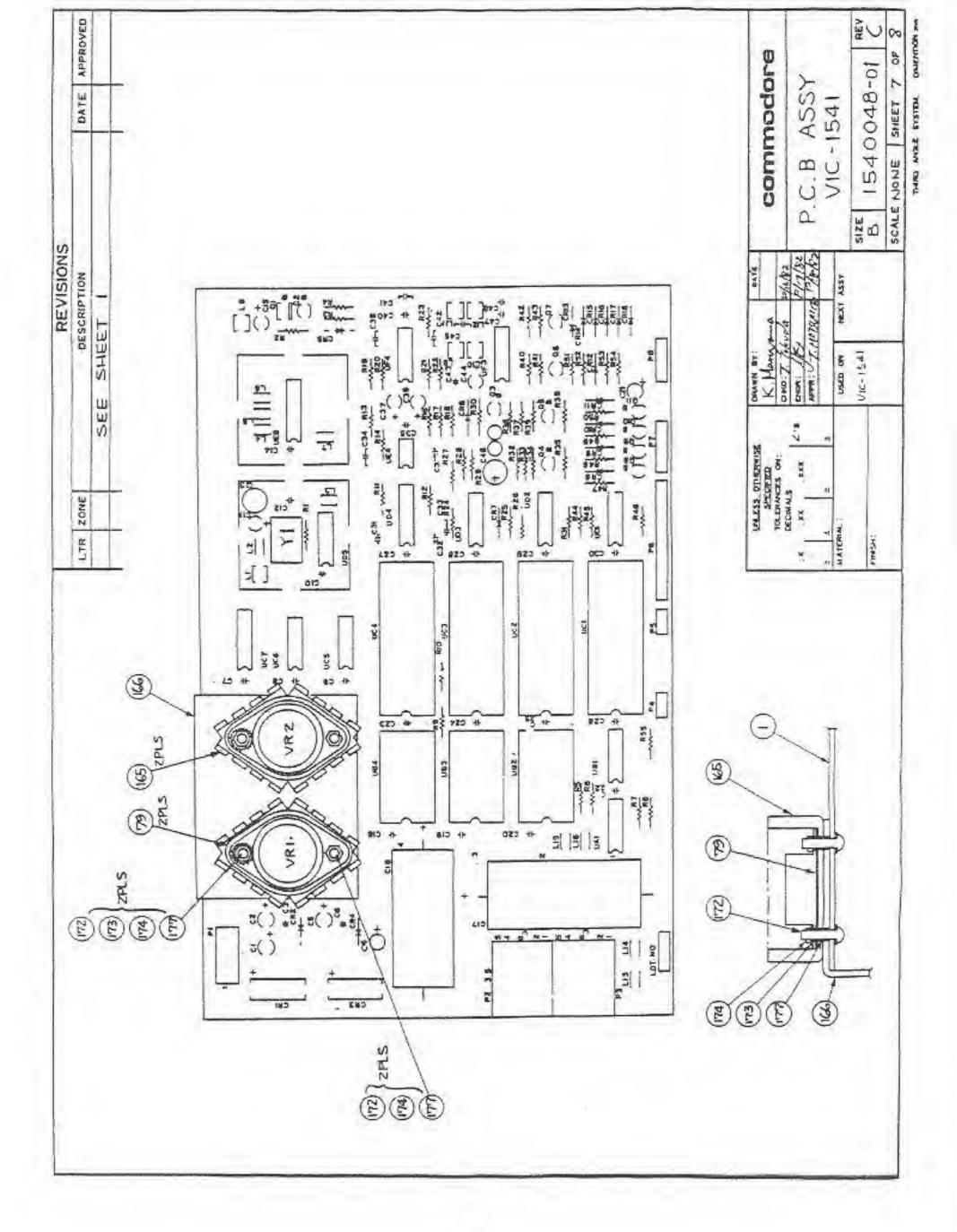
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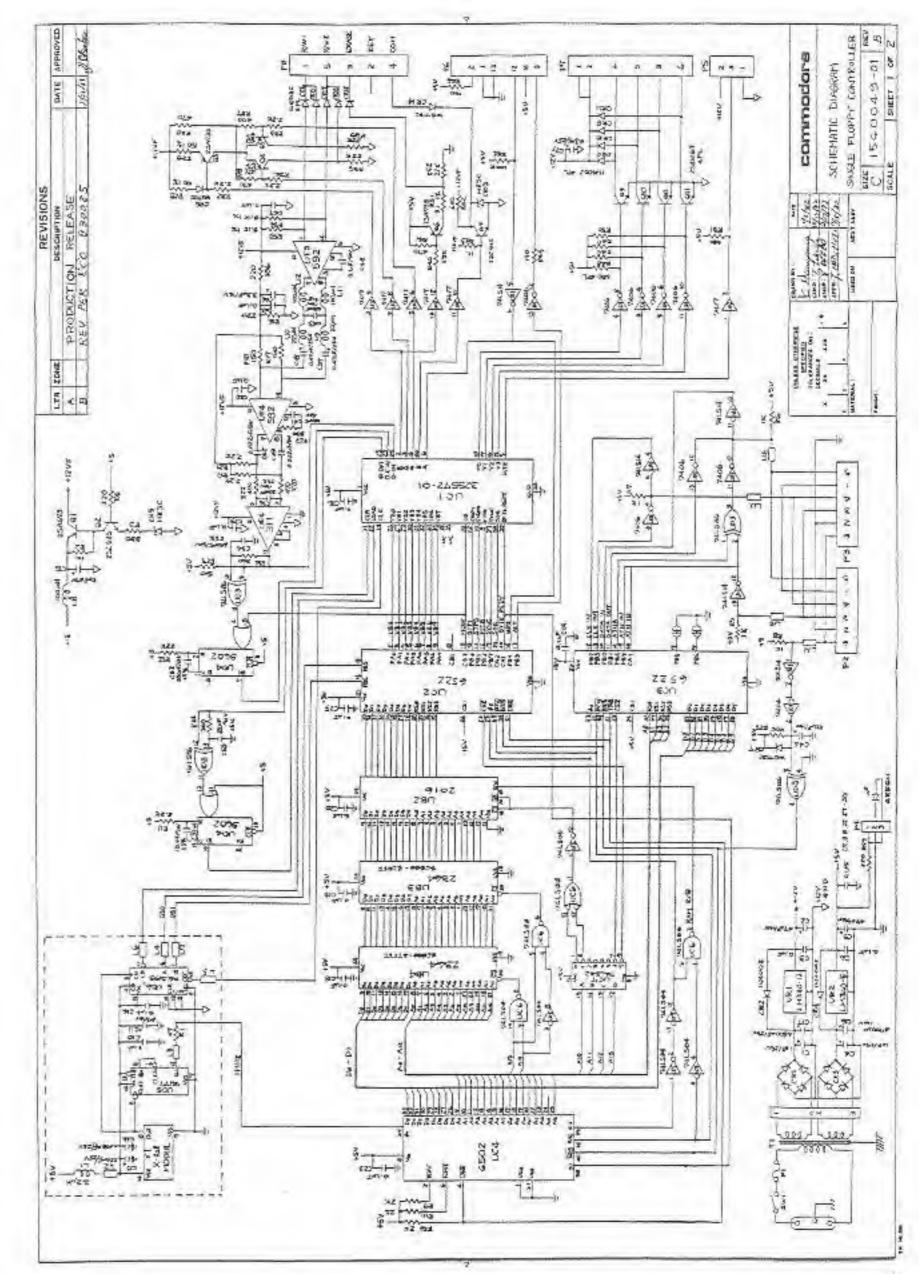
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196 B 251065-04 HeWee Asst. 25 prof. 4 pril PB Molex Sodd-04 Ag 196 B 251562-05 6 pril PG 3022-06A 196 B 325562-03 2.5 prof. 3 pril P4,P5 3022-05A 190 B 9 0 3 3 1 6 - 04 HeMee Asst. 3 9 6 prof. 4 pril PG 3022-05A 190 B 9 0 3 3 1 6 - 04 HeMee Asst. 3 9 6 prof. 4 pril PG Molex \$271-04A 190 B 10 10 10 10 191 B 10 10 10 192 B 10 10 10 10 193 B 10 10 10 10 194 B 10 10 10 10 195 B 10 10 10 10 10 10 195 B 10 10 10 10 10 10 195 B 10 10 10 10 10 10 10		44							
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1 47 325562 - 06		-	_	251065-04	ASST. 2.5	4 PIN	PB	Mot	EX
1 18 325562-03		_	-		The second of the second	6PIN	P7		3022-06A
2 99 324562-03 2.5 PiTCH 3PIN P4,P5 3022-03A 2.5 PiTCH 3PIN P4,P5 3022-03A		_		325562-15		ISPIN	P6		-/5
100		$\overline{}$	-	325562-03	Z.S PITCH	BPN	P4, P5		3022-03A
101 102 103 104 104 105		_	_	903316-04	ASSY.	APIN	Id	MOL	\$271
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		3	T A	B ASSY	2-1541	DAMAN BY	_	B11.18	1540048

PART/ DASH NO.	10	METI	90	PART NUMBER	30	DESCRIPTION		REF DES	MOTES	ES
	-	12	8 9	20301-04	CAPACITOR FLECT.	220 F/10V	1/101/	cia		
	Ξ	100	6	900/01-45		6800MF	1251	CiT		
	=	4	0	1		4700 pm	161	CIG		
	2	115	0	900/00-33			161	C2.C5		
	2	116	6	900100-32	ELECT.	1/2/	ASZ	C1,C4		
	-	III	6	800405-15	TANTALIUM	10 MF	1257	CIS		
	7	8	6	1	TANTALIUM	3.3µF/	1251	C44		
	7	61	6	900010-52	CERAMIC	150PF	vas'	C3	±5%	
	-	120		1		330 PF/	/50V	C32.C36	±5%	
	m	121		-54			, sov	C45.C33.C34	15%	
	1/	122		- 25		130001	SOV	CAL		
	18	123		02-		0.145/1	103	C3.6-10	14.16,19,20,22-30,35,40,43,47,48	43,47,48
	-	124	6	41-010008	CERMAK	0	1500	C39,C42		
	$\overline{}$	125	6	900100-40	ELECT	100µF/	161	C460		
	2	1321	16	11-200006	DANTALIUM	0.47	7557	637,638		
	_	121		80-			1251	C21		
	-	821	16	\$1- 200006	TANTALION	1451		-110		
	/	-	B 94	142	CAPACITOR CERANIC	0.033	V55/24	C12		
	_	130								
		131	H							
		25								
		133	-			and the second s				
	/	134 E	B 9	0 /550-56	RESISTOR CARBON	MATS 1	41n	RI		
	2	135 E	8 9	0/550-	RESISTOR CARBON	%STMW	360.0	R14, R24		
	4	136		68-			-	RF7.18.45.46		
	-	13.7		- 52			220 n	84,16,36,55		
	7	88		-/4			U	R3,R23		
	-	34		1,50			470n	R	4	
	7	140		-38				-		
	_	4		'n			089 n	REI 42 41-50		
	9	142		10-			7	KE.S.67.843		
	_	143		-53				R9,10,26		
	9	144		8/-			2.2 KD	本一次12.0.118		
	-	45		69-				R40		
	4	914		2/-			22 K.D	RIZ.35.39.52		
	STORES OF	-	8	01550-07	RESISTOR CARBON	1/4W ±5% /	100KB	R25_844		
	-	3	1	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN	Contract of the last of the la	Sale of the second seco	Contract Section of the	The second second	A section of the sect	
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151 8 925563-01 FERRITE BEAD 12-7,13-16 SUBSTITUTE FOR ITEM 158. 150		15	9					
58 8 25 5 6 3 - 0 PERRITE BEAD L2 -7,13 - 16 Substitute For ITEM 158, 16 16 16 16 16 16 16 1		3	-					
60 903025-0/ FERRITE BEAD L2-7,13-16 SUBSTITUTE FOR ITEM 158. 160 161				63	FERRITE	L2-7,13-16		
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174 179 405477-02 TUAIMS VINYL 3.5 DM X S.MH		_	Ŋ					
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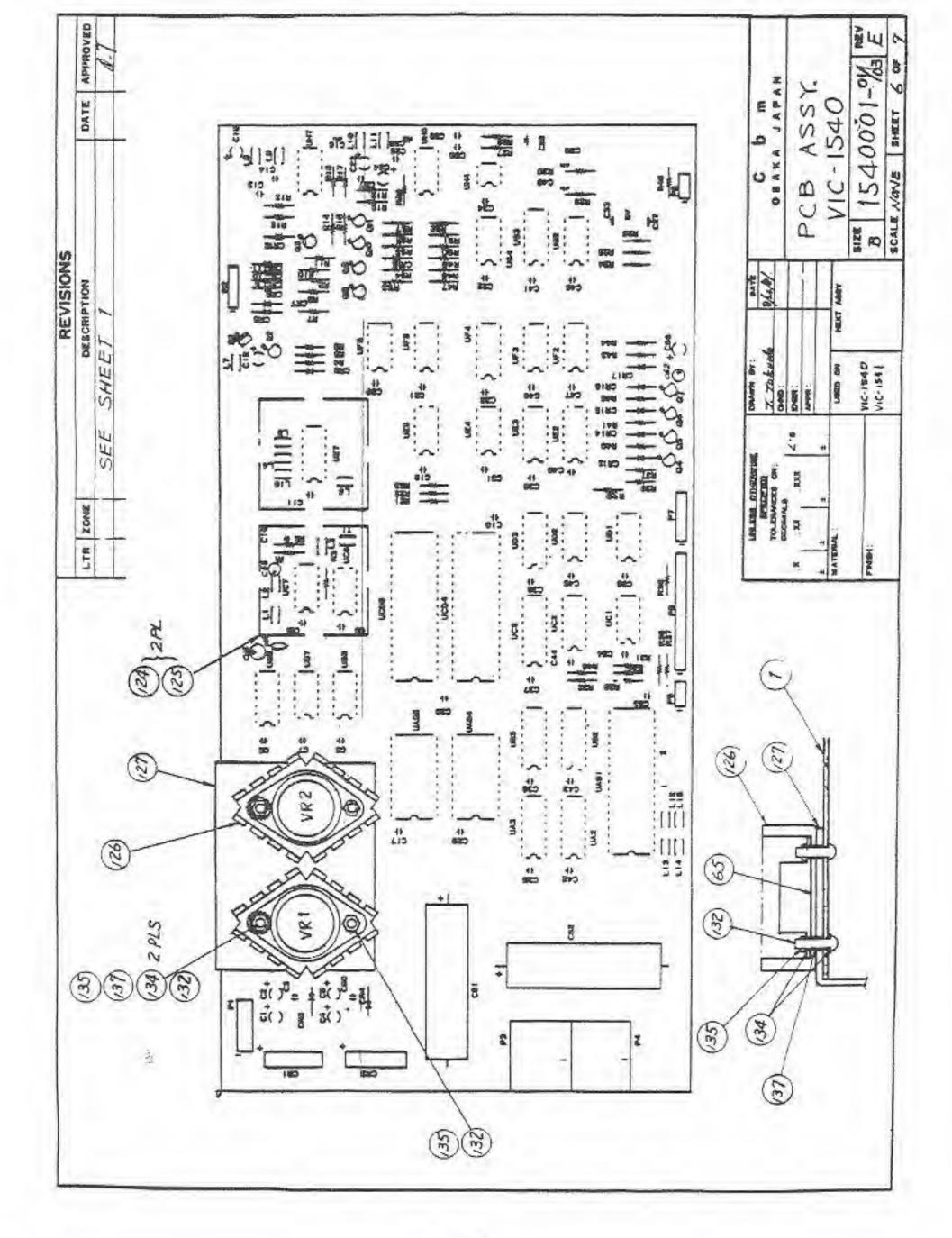
PART NO.	DESCRIPTION	A Spulg PRODITION RELEASE ZTET
1540001 -01	PCB ASSY VIC-1540 (ECC) UL	" ADDED SHEET 6 OF 7 (FOR FCC) TIT
- 101	OSIDER ASSY VICHEALTERED III	D "/20/87 ADDED TIEM 6.
4	W221 VIC 134111 CC	3/2/10 REVISED PER ECO 830084
		2 THIS ROM CAN BE USED ON ONLY USA : CANADA AND STABALS VERSION FOR SUBSTITUTE FOR ITEM 35.
		1. SHEET 687 OF 7 ME B-SIZE ASSY DWG.
c b m ENGINEERING	THELE IN THE TANK BY	La L. 17/1/6/1 P. 15/10/11 Speet

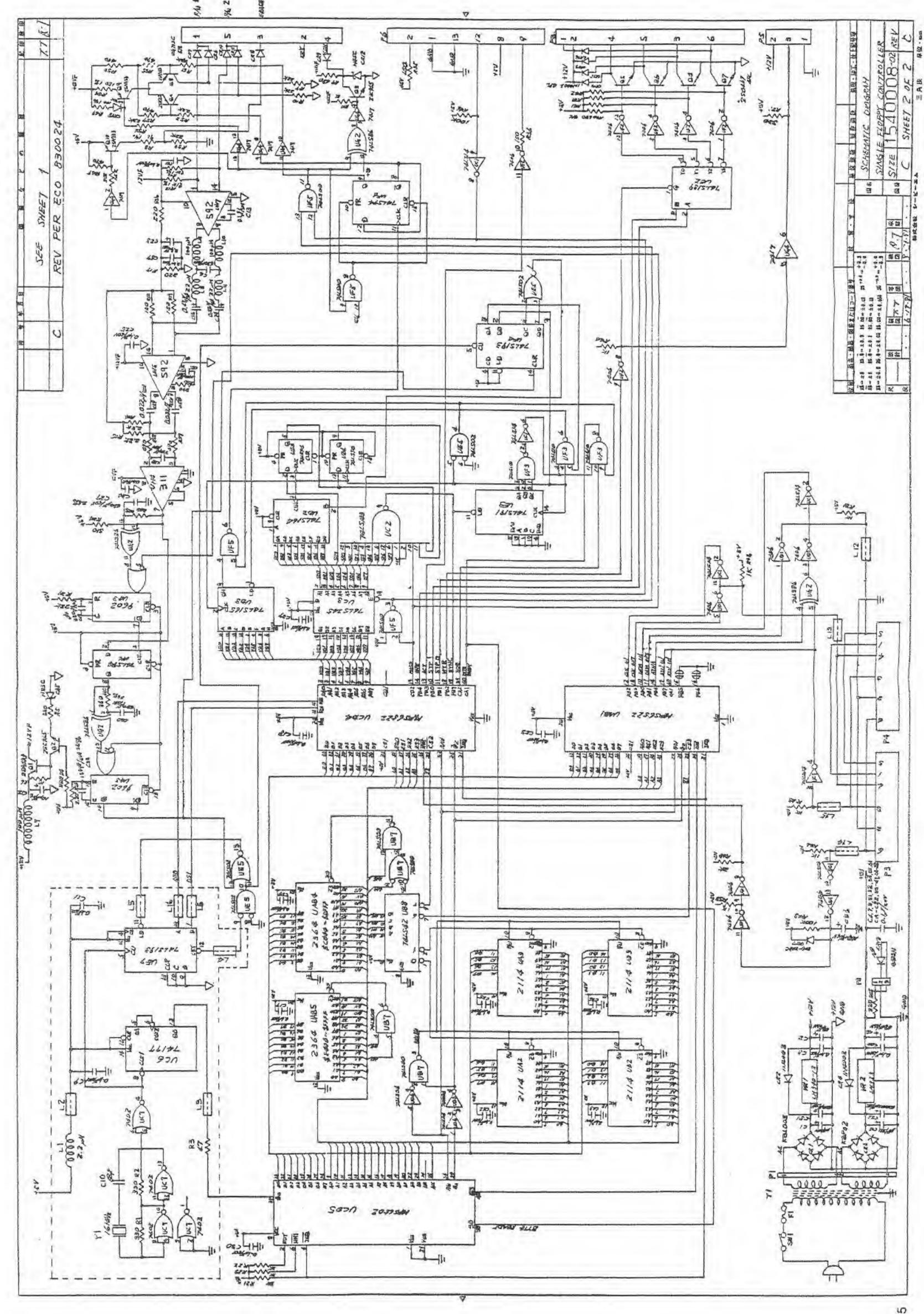
QUANTITY REGO PART/DASH NO.	PER		MOT	8 1	PART MIMBER	DESCRIPTION	TION	REF. DES		NOTES
	-03	9	4	3						
	1	N	1	0	1540007	P.C. BOARD 315x	315x155x1.6t		MTL: GLASS EPOX)	01-5 XXa
+	1	1	7 0	+				and the state of t		
	1	3		2	1540008-01	SCHEMATIC DIF	DIAGRAM			
+	1		Y	B	901229-03	1. 5	197 ROM	UABS	\$E400 ~ \$FFF	
	-	1	_	8		MPS 6502		VCDS		
	1	\	0	-	325302-01	-364-	130 ROM	UABE	COOD	FF
		\	a		325303-01	2364-	131 ROM	UABS	\$ Eddo SEFE	cF.
	N	2	01		901437-01	MPS 6522	NIA	UMBT. UCD4		
	A	A	77		901471-01	MPS 2114	RAM	UAZ,3.UBZ,3		
	Z	2	12		1	746500	Z-MAND	UBT, UFS		No.
	1	\	13		901521-21	741.502	2-NOR	UES		
	7	7	14		-7	741504	INK	1/86		
	1	`	37		11	741510	3-NAND	UF3		
	1	1	9		1	741514	SOH, INV.	170		
	7	7	77	-	901521-17	747842	DEC.	880		
	N	2	18				D-FF	UE4, UF6		
	-	>	61		1	100	2-Ex-0R	250		
	1	1	20		J	- 7		14.2		
	7	/	7/2		1	7445 139	Den. P	UEZ		
	7	1	77	2	901521-28	7415164	8 Bie Shift Reg	200		
	-	7	23	-	9		8 Bit Mile Reg	600		
	`	~	7.5		901521-40	7415191	4 Bit Count.	UE3		
	Z	2	100	er)=0	2	7445193	4 Bit Count.	UE7, UF4		
	1	1	26	91	901521-45	741.8 245	Bus Treatmer	003		
	7	\	G		901522-32	7402		0.07		
	N	N	47		901522-06	7406	1WV. OC.	UDI. UFZ		
	1	1	60		90 1522-03	74177		920		
	7	^	30	-	901510-01	9602		143		and the second s
	/	/	18		901523-04	LM311		UH4		
	~	2	3.2	8	901523-08	NE 592		UHS.UHT		
	7	/	33	8	522	7417		164		
	S	5	-	8		65157		0.00	SUBSTITUTION	FOR ITEM 29
	S.		\rightarrow	B	-622	7364-	9	UABS	E DOD ~	F SuB.
	\$2	-	-	B		IC 2364-	ROH	UABS	SEGGG ~ SFFFF	F SUB. FOR (TEN 6
c b m ENGINEERING	ERING		TITLE	40	000	CH 31 VIII	DRAWN BY:	/	0	1000013
DSAKA JAR	JAPAN			1	TOOK I	110-1340	The F & L. 19 A.	P. A. J. 40000		きいしつことと

			MOTH P. G	PART MARKER	DESCRIPTION	REF. DES	NOTES
	है ०	200	17 B	902671	TRANSISTOR NPN 250.045	02.03	
	0	-	-	000000	3/0.000 /00/	00 00	CUIDETITUTION CAD TITUE 20
	4	-	39	902679	14	20-70	SUSSILIEURING CON TIEMIST
	V	_	90	902682	NPW 25C2120	04-07	SUSTITUTION FOR ITEM 39
	7	_	1	902720		,0	
	4	_	2	902717	25A 733	110-80	
	S	_	3 8	00	25A1015	110-80	SUBSTITUTION FOR ITEM 42
	S	_	-	00		164	OR ITEM 33
	1,	-	-	-		4	
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+	2	2 47	70	900850-05	WG 7/3C	CR6-11, 17, 18	
	7	_	0 0	11	1NAL 1440	D/ 1/1/9/	SUBSTITUTION FOX ILEM 41
	- 0	600	*	325505-01	500mW 1570	CPS	0000
	9.4	-	9.		SOUMW 13/	S. S. S.	1
	5	5	1	- 1	500MN #5%	CAS	IN 3226 B SUB. FOR ITEM 49
1	J	_	2	325506-01	5.11 500 mW # 5%	CR/Z	
	vi.	S	m	11 - 824006	1 500 mW # 5%	CRIZ	INS231. SUB. FOR ITEM 52
1	7	1 38	7	900756-01	1.5A 50V	CRI	
	7	7.55	4	900755-02		CRS	K81-02
	1	35	-				
	7	1.52	2 B	900556-02	CRYSTAL IGMHE	7.1	
	1	35	40				
	7	1 59	8	5	COIL, INDUCTOR 2.24H	- 17	
	N	2	9	32	WDUCTOR 224	117'87	
	m	3	8/9	7	100	17,19,410	
	1	9	79				
	7	7	63 8	-	VOLTAGE REGULATOR 12V 1.5A	181	LM340-12
	1	1 64	B	90	VOLTAGE REGULATOR SV 3A	VR2	LM323
	N	2 83		90			ATTACHED WITH VOLT REGULATOR
	S	-	8 99	32			ON FAR ITEM
		9	29				
	2	2	88 8	198806	CONNECTOR, DIN 6 PIN 1	P3, P4	HOSHIDENKI TCS 4460-01-101
	Ţ	_	_	1			
	m	5	-	404150-	SOCKET IC LOW PRO. S		Communication of the Communica
1	α.	_	77 8	904153-03	SOCKET IC LOW PRO. ZAPIN		
1	1	¥F.	TITLE		DRAWN BY. DATE		0ATE 617E
C b m ENGINEERING	REAG		Da	R ASSY			2 150001

1 72 8 325514-04 HeADER ASSY 2.5 PICH RANG, 4PW PT 124 325515-05 1	1 23 9 325516 04 MehDER ASSY 2.5 PICH RANG, APM P2 MOLEX 124 1325515 15 15 15 15 15 15 15	OUANTITY REGO	PER 93	\$2 O	ACETTI 22.C	PART NAMBER	DESCRIPTION	NOI	REF. DES	ONGR	MOTES
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1	1 17 18 325515-15		7		-	5		NIG9	79		3084-06A
2 26 255 5-03	2 2 16 8 325515-03		-	_	45	5-		NISPIN	9d		-11
1 77 8 9033/6-04 HEADER ASY 396 PUH 4PW P1 HOLEX 527/- 28 900/00-03 GAP. ELECTROLYTIC Z20JF/ESV C55 AXIAL LEAD F22x, 28 900/00-32 GAP. ELECTROLYTIC GROWE 53V C56 GX/AL LEAD F22x, 28 900/00-32 TANTALUM J3.4F 25V C12 28 900/00-32 TANTALUM J3.4F 25V C23 28 900/00-32 TANTALUM J3.4F 25V C23 29 900/00-32 TANTALUM GAPP 52V C36 29 900/00-32 GREANIC GAPP 53V C36 20 900/00-42 GREANIC GAPP 53V C36 20 900/00-42 GREANIC GAPP 53V C36 20 900/00-24 GREANIC GAPP 53V C36 20 900/00-27 GAPP 14/7ALUM GAPP 53V C36 20 900/00-37 GAPP 14/7ALUM GAPP 53V GAPP 53V 20 900/00-37 GAPP 14/7ALUM GAPP 53V GAPP 53V GAPP 53V 20 900/00-37 GAPP 53V GAPP	1 12 8 90336-04 MEADER ASS 3:36 BILH APPLY PI MOLEX 1 12 8 900100-03 CAP. ELECTROLYTIC 2200xF25V CS2 AKIAL LEAD 1 12 900101-45 CAP. ELECTROLYTIC CASOLA ESV CS2 AKIAL LEAD 2 12 9001010-33 ELECTROLYTIC LALE 25V C.2. CS AKIAL LEAD 3 9001010-33 ELECTROLYTIC LALE 25V C.2. CS 4 9001010-32 TAMTALUM CAPE 55V CC2 5 8 900402-15 TAMTALUM CAPE 55V CC2 5 8 900402-15 TAMTALUM CAPE 55V CC2 5 8 900010-35 CERAMIC CAPE 55V CC2 5 8 900010-35 CERAMIC CAPE 55V CC2 5 8 900010-35 CERAMIC CAPE 55V CC2 6 9 9 9 9 9 7 1 1 1 1 1 1 1 1 8 9 9 9 9 9 9 9 9 9		0	-	-	5	1 25.8M	P-AMS.		4	3094-034
198 9 00 100 - 03 CAP. ELECTROLYTIC 220 \(\text{LEAD} \)	1 29 9 9 9 9 9 9 9 9			-	-	-91	ASSY	4P1	Pi	MOH	-1225
199 9 000/00-03 AP. ELECTROLYTIC 220 JFZ5V C552 AXIAL LEA 180 9 900/00-03 AP. ELECTROLYTIC LARDALE fal C552 AXIAL LEA 2	1 179 9 9 0 0 10 0 0 0 0 0 0			2							
180 9 900 101 - 44 CAP ELECTROLYTIC 10000uE 15V CSS AXIAL LEA 2 RZ 900 1001 - 45 4 CAP ELECTROLYTIC 1 ME ZSV CS CS 2 R3 900 100 - 32 TANTALLUM 3.3 ME ZSV CT CAP 1 R5 900 010 - 32 TANTALLUM 3.3 ME ZSV CT 2 R3 900 010 - 32 TANTALLUM 3.3 ME ZSV CT 2 R3 900 010 - 32 TANTALLUM 3.3 ME ZSV CT 2 R3 900 010 - 32 TANTALLUM 3.3 ME ZSV CT 2 R3 900 010 - 32 TANTALLUM 3.3 ME ZSV CT 2 R3 900 010 - 23 TANTALLUM CAP CT 2 R3 900 010 - 24 TANTALLUM CAP CT 2 R3 900 010 - 25 TANTALLUM CAP CT 2 R4 900 010 - 40 ELECTROLYTIC CAD CT 2 R5 900 010 - 40 ELECTROLYTIC CAD CT 2 R5 900 010 - 40 ELECTROLYTIC CAD CT 2 R5 900 010 - 40 ELECTROLYTIC CAD CT 2 R5 900 010 - 40 ELECTROLYTIC CAD CT 2 R5 900 010 - 40 ELECTROLYTIC CAD CT 2 R5 900 010 - 40 ELECTROLYTIC CAD CT 3 R5 900 010 - 40 ELECTROLYTIC CAD CT 4 R5 900 010 - 40 ELECTROLYTIC CAD CT 5 R5 900 010 - 40 ELECTROLYTIC CAD CT 6 R5 900 010 - 40 ELECTROLYTIC CAD CT 7 R5 900 010 - 40 ELECTROLYTIC CAD CT 8 R5 900 010 - 40 ELECTROLYTIC CAS CT 9 R5 900 010 - 40 ELECTROLYTIC CAS CT 9 R5 900 010 - 40 ELECTROLYTIC CAS CT 9 R5 900 010 - 40 ELECTROLYTIC CAS 1 R5	1 190 9 900 101 - 44 000 101 100 101		-	10	-	00	CAP.	M.F.	593		
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2 82 900100-33 ELECTROLYTIC LIFE 2SV CI.CZ 2 83 900100-32 ELECTROLYTIC LIFE 2SV CI.CZ 1 84 900100-32 TANYALLUM JOHE 2SV CI.ZZ 1 85 900010-51 TANYALLUM J.QHE 2SV CI.ZZ 2 88 900010-52 AS CERAMIC ABPE 50V CI.ZZ 2 88 900010-25 A CLERAMIC ASPERSOV CI.ZZ 4 0.1 4F J.SOV CI.ZZ 4 0.00 10 - 25 AS ASPERSOV CI.ZZ 2 92 900010-25 A CLERAMIC ASPERSOV CI.ZZ 2 93 9 900010-27 CAP TANTALLUM ATAJICOV CI.ZZ 2 93 9 900010-14 CLERAMIC ASPERSOV CI.ZZ 2 93 9 900010-14 CLERAMIC ASPERSOV CI.ZZ 2 94 9001550-36 RESISTOR CARBON CI.ZZ 2 90 8 9001550-37 CLERAMIC ASPERSOV CI.ZZ 2 90 8 9001550-37 CLERAMIC ASPERSOV CI.ZZ 2 00 0001550-37 CLERAMIC ASPERSOV CI.ZZ 3 000 0001550-38 CLERAMIC ASPERSOV CI.ZZ 4 001 5001550-37 CLERAMIC ASPERSOV CI.ZZ 4 001 500150-37 CLERAMIC ASPERSOV CI.ZZ 5 001 500150-37 CLERAMI	2 2 22 22 22 23 900100-33 EEEE(RVYTIC THE RSY CLOCK 2 2 253 900100-32 EEEE(RVYTIC THE RSY CLOCK 1 1 285 9000100-35 TANTALIUM 3.34E 23V C.02 1 1 28 9000100-35 TANTALIUM 3.34E 23V C.02 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		_	-	-	900101-45	400	6800#F 25V	CSI	AXIAL	
2 83 900/00-32 ELECTROLYTIC IMF 25V C1.C2 1 28 900/00-32 TANTALIUM 3,34F 25V C23 1 28 9000/0-51 TANTALIUM 3,34F 25V C23 2 3 9000/0-52 CERAMIC 68PF 50V C39 ± 5% 2 3 9000/0-52 CERAMIC 68PF 50V C39 ± 5% 3 9000/0-52 CERAMIC 680PF 50V C39 ± 5% 4 9000/0-52 CERAMIC 0,022 \(\text{if }	2 2 83 900402-15 TANTALUM 10 F 25V C1.C4 1 1 85 900402-15 TANTALUM 3.3 4F 25V C123 1 1 85 900010-52		0	-	~	1	•	474F 16V	C2, C5		
1 84 900402-15 TANTALIUM 104F 25V C123 1 84 900010-51 TANTALIUM 3,34F 25V C233 ± 5% 1 84 900010-54 CERAMIC 48PF 50V C20 ± 5% 2 83 900010-53 3300F 50V C26 ± 5% 2 84 900010-25 V C14F 50V C26 ± 5% 2 92 900010-20 V C14F 50V C26 ± 5% 2 92 900010-20 V C14F 50V C26 ± 5% 2 92 900010-20 V EECTROLYTIC 0,022 \(\text{in} \) F.	1 184 900402-15 TANTALIUM 104F 25V C12 1 28 900402-11 TANTALIUM 3.34F 25V C23 1 28 900402-51 TANTALIUM 3.34F 25V C33 ±5% 2 28 900010-52 C48AMIC C330 ±5% 2 2 2 900010-53 C330P 50V C34C 66 ±5% 3 3 3 9 900010-53 C48AMIC C100P 50V C34C 66 ±5% 4 900 900010-25 C48 C48AMIC C100P 6V C36 C69 ±5% 5 1 1 1 1 1 1 1 1 1		P	$\overline{}$	ימו	3	ELECTROLYTIC	1 MF	C1.C4		
185 9000402-11 TANTALIUM 3,3 µF 25V C23 186 900010-51 CERAMIC 68PF 50V C10 281 900010-51 CERAMIC 68PF 50V C30,39 282 900010-54 CERAMIC 68PF 50V C4,6cm,69 ± 5%, 40 91 90 900010-20 (CERAMIC 0.022 µF 50V C36,09 90 900010-20 (CERAMIC 0.022 µF 50V C36,09 90 900010-40 ELECTROLYTIC 100 µF 6V C36,09 90 900010-17 CAP, TANTALIUM 4, TAFZ 6V C45 90 900402-17 CAP, TANTALIUM 4, TAFZ 6V C45 90 900402-16 RESISTOR, CARBON MW 5% 1500 Resistant 6 90 900550-36 RESISTOR, CARBON MW 5% 1500 Resistant 6 90 900550-36 CAP, TANTALIUM C200 Resistant 6 90 900550-37 CAP, TANTALIUM C200 Resistant 6 90 900550-37 C48BON MW 5% 1500 Resistant 6 90 900550-37 C48BON MW 5% 1200 Resistant 6 90	1 186 900010-51 74MTALIUM 3,3 dF 25V C23 48PE 50V C10 48PE 50V C10 45K CERAMIC 48PE 50V C10 45K C10		-	_	**	-	TANTALIUM	NE	C/Z		
88 900010-51 CERAMIC 68PF 50V C30 ± 5% 87 900010-52 530PF 50V C37,049 ± 5% 88 900010-54 580PF 50V C4,027,030 ± 5% 90 900010-54 680PF 50V C36,037,047,172 x,037,040 90 900010-25 V	1 88 \$20010-51 CERAMIC A8PPE 50V C30 ±5% 2 2 88 \$900010-52 3 3300PE 50V C36 3 55% 3 3 9 900010-54 3 3 3 3 3 3 3 4 2 2 2 8 9 9 0 0 0 0 5 2 2 2 2 3 9 0 0 0 0 5 5 6 6 6 6 6 6 6 6		_	8/	- 5	-	TANTALIUM	UF	C23		
87 900010-32 330PF 50V C3, C49 ± 5% 88 900010-53 330PF 50V C3, C49 ± 5% 90 900010-34 680PF 50V C2, C49 ± 5% 90 900010-20 V 0.1 MF 50V C3, C39 ± 5% 90 900010-20 V 0.1 MF 50V C3, C39 ± 20% 90 900010-20 V 0.1 MF 50V C3, C39 ± 20% 90 900010-20 V EECTROLYTIC 100 UF W C3, C39 ± 20% 90 900100-40 EECTROLYTIC 100 UF W C3, C39 ± 20% 90 9000100-70 EECTROLYTIC 100 UF W C3, C39 ± 20% 90 900002-17 CAP, TANTALUM A-TJF75V C42 ± 20% 90 900002-14 CAP, TANTALUM A-TJF75V C43 ± 20% 90 9000002-14 CAP, TANTALUM A-TJF75V C43 ± 20% 90 9000000-14 CAP, TANTALUM A-TJF75V C43 90 9000000-14 CAP, TANTALUM C43 C43 90 9000000-14 CAP, TANTALUM C43 C43 90 9000000-14 CAP, TANTALUM C43 C43 90 90000000-14 CAP, TANTALUM C43 C43 90 90000000-14 CAP, TANTALUM C43 C43 90 90000000-14 CAP, TANTALUM C43 C43 90 900000000000000000000000000000	1 87 900010-32 330PE 52V C38.C49 25% 25% 330PE 52V C38.C49 25% 25% 260010-54 580PE 53V C4.C27.C30 25% 25% 260010-25 1000F 53V C4.C27.C30 25% 25% 200010-25 1000PE 53V C36.C49 25% 25% 25% 26% 25%		1		100	15-010006	CERAMIC	F	0/3		
2 88 9 00000-53 330PE 50V CON.COT.COT 25% 9 80 900000-52 V COORDE 50V CON.COT.COT 25% 1 90 900000-20 V COORDE 50V CON.COT.COT 25% 2 92 9000000-20 V CORDENE 50V CON.COT.COT 25% 2 92 9000000-20 V CORDENE 50V CON.COT.COT 25% 2 93 8 900402-07 CAP. TANTALIUM CATUEL 16 V COS.COT 25% 1 92 B 900402-07 CAP. TANTALIUM CATUEL 16 V COS.COT 25% 1 92 B 900402-08 CAP. TANTALIUM CON.COT.COT.COT.COT.COT.COT.COT.COT.COT.COT	2 2 88 9 90000-53 3300F 50V CR,CST,CSD ± 55% 1 20 900000-54 680PF 50V CR,CST,CSD ± 55% 1 20 900000-25		_	18	7	1		VOS FOOV	C33		
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99 900010 - 20 CERAMIC 0.014F 50V CS6.CS9 93 900010 - 40 ELECTROLYTIC 1004F 6V 93 9000402 - 77 CAP TANTALIUM 0.474F 6V 95 900402 - 77 CAP TANTALIUM 0.474F 6V 95 900402 - 77 CAP TANTALIUM 0.474F 78V 95 900402 - 74 CAP TANTALIUM 0.474F 78V 95 900402 - 74 CAP TANTALIUM 0.033/4 25 V 95 900402 - 74 CAP TANTALIUM 0.033/4 25 V 96 900402 - 74 CAP TANTALIUM 0.033/4 25 V 97 98 900405 - 02 CAP TANTALIUM 0.033/4 25 V 98 900405 - 74 CAP TANTALIUM 0.033/4 25 V 98 900550 - 56 RESISTOR, CARBON 14W 51 200 99 900550 - 56 RESISTOR, CARBON 14W 51 100 900550 - 30 CAP TANTALIUM 0.033/4 1	40 91 900010 - 20 (ERAMIC 0,022µE 50V G3.cs9 1 1 93 900010 - 20 ELECTROLYTIC 100µE hs V G3.cs9 ± 20% 1 93 900002 - 14 CAP TANTALUM 0,47µE fs V G3.cs4 ± 20% 1 95 900002 - 14 CAP TANTALUM 0,47µE fs V G42 ± 20% 1 95 900002 - 14 CAP TANTALUM 0,47µE fs V G42 ± 20% 1 95 900002 - 14 CAP TANTALUM 0,47µE s V G42 ± 20% 1 95 900002 - 14 CAP TANTALUM 0,47µE s V G42 ± 20% 1 95 900005 - 14 CAP TANTALUM 0,47µE s V G42 ± 20% 1 95 900005 - 14 CAP TANTALUM 0,47µE s V G42		-	1	0	1			626		
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93 900100-40 ELECTROLYTIC 100µF/6 V CS6 2 94 8 900402-17 CAP, TANTALIUM 0,47µF/6 V CG5C 95 9 900402-17 CAP, TANTALIUM 4.7µF/26 V CG5C 96 9 900402-14 CAP, TANTALIUM 4.7µF/26 V CG5C 97 98 900402-14 CAP, TANTALIUM 4.7µF/26 V CG5C 98 9 900405-14 CAP, TANTALIUM 4.7µF/26 V CG5C 99 9 900405-14 CAP, TANTALIUM 4.7µF/26 V CG5C 99 900405-14 CAP, CARBON / MW 5/6 36010 RW, R39 90 550-56 RESISTOR, CARBON / MW 5/6 1500 Rich, R39 4 402 900/550-36 RESISTOR, CARBON / MW 5/6 1500 Rich, R39 90 550-36 CAP, CARBON / MW 5/6 1500 Rich, R39 90 550-38 CAP, CARBON / MW 5/6 1500 Rich, R39 90 550-38 CAP, CARBON / MW 5/6 1500 Rich, R39 90 550-38 CAP, CARBON / MW 5/6 1500 Rich, R39 90 550-38 CAP, CARBON / MW 5/6 1500 Rich, R39 90 550-38 CAP, CARBON / MW 5/6 1500 Rich, R39 90 550-38 CAP, CARBON / MW 5/6 1500 Rich, R39 90 550-38 CAP, CARBON / MW 5/6 1500 Rich, R39 90 550-38 CAP, CARBON / MW 5/6 1500 Rich, R39 90 550-38 CAP, CAP, CARBON / MW 5/6 1500 Rich, R39 90 550-38 CAP, CAP, CAP, CAP, CAP, CAP, CAP, CAP,	1 193 900100-40 ELECTROLYTIC 100µE & V C56 ±20% 1 95 900402-17 CAP. TANTALIUM 0.47µE 6 V C65.24 ±20% 1 95 900402-17 CAP. TANTALIUM 4.7µF 2 V C62 1 95 900402-17 CAP. TANTALIUM 4.7µF 2 V C63 1 96 900405-02 CAP. TANTALIUM 4.7µF 2 V C63 1 96 900465-02 CAP. TANTALIUM 1µF 10 V C63 1 90 900465-02 CAP. TANTALIUM 1µF 10 V C63 1 90 900465-02 CAP. TANTALIUM 1µF 10 V C63 1 90 900465-02 CAP. TANTALIUM 1µF 10 V C63 1 90 900465-02 CAP. TANTALIUM 1µF 10 V C63 1 90 900465-02 CAP. TANTALIUM 1µF 10 V C63 1 90 900465-02 CAP. TANTALIUM 1µF 10 V C63 1 90 900465-02 CAP. TANTALIUM 1µF 10 V C63 1 90 900465-02 CAP. TANTALIUM 1µF 10 V C63 1 90 900465-02 CAP. TANTALIUM 1µF 10 V C63 1 90 900465-02 CAP. TANTALIUM 1µF 10 V C63 1 10 900465-02 CAP. TANTALIUM 1µF 10 V C63 1 10 900465-02 CAP. TANTALIUM 1µF 10 V C63 1 10 900465-02 CAP. TANTALIUM 1µF 10 V 10 V 10 V 10 V 1 10 900465-02 CAP. TANTALIUM 10 V 10		~	_	2	-0	CERAMIC	22 VE	CSB. CSP		
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95 B 900402-08 CAP. 7ANTALIUH	1 95 B 900402 - 08 CAP. TANTALIUH 4-74/25 V C62 1 96 B 900402 - 14 CAP. TANTALIUH 144/10 V C63 1 92 B 900465 - 02 CAP. CERAHIC 0.03347/25 V C64 2 2 98 B 900/550-92 CAP. CERAHIC 0.03347/25 V C64 4 4 4 4 4 4 4 4 4		N	-	-	2-		474F	C15,C24	± 20%	
96 900402 - 14 CAP. TANTALIUM	1 96 900402 - 14 CAP. TANTALIUH				-	2	16	4.7.51	292		
1 97 B 900465-02 CAP. CERAHIC 0.033,45/25V C68 2 98 B 90/550-56 RESISTOR, CARBON KW 5% 360A Res. R30 4 00 B 90/550-89 RESISTOR, CARBON KW 5% 470 R3.36 4 00 B 90/550-89 RESISTOR, CARBON KW 5% 150A R8.8.36 4 00 B 90/550-89 RESISTOR, CARBON KW 5% 470A R8.8.36 5 00 B 90/550-80 RESISTOR, CARBON KW 5% 150A R8.8.3030 1 00 B 90/550-31 R1.8.3138,4838 2 00 S50-550-31 R2.8.3138,4838 4 00 S50-550-18 RESISTOR, CARBON KW 5% 22KA R2.8.338	1 1 07 B 900465-02 CAP. CERAHIC 0.033\text{in} f 25 V C64 2 2 29 8 90.1550-108 RESISTOR, CARBON KAN 55, 360.01 Ris, R30 4 4 40 90.1550-36 RESISTOR, CARBON KAN 55, 470.01 Ris, R3.36 5 6 603 90.1550-36 RESISTOR, CARBON KAN 55, R20.01 Ris, R3.36 6 603 90.1550-36 Ris, R3.36 Ris, R3.36 7 100 90.1550-38 S.100 Ris 8 1 100 90.1550-31 Ris, R3.36 Ris, R3.36 9 1 100 90.1550-31 Ris, R3.36 Ris, R3.36 9 1 100 90.1550-31 Ris, R3.36 Ris, R3.36 9 1 1 1 1 1 1 1 1 1		1	_	-	7	11.3	1/201	C.6.3		
2 98 B 90/550-108 RESISTOR, CARBON KW 5% 3600 Rox, R30 4 00 8 90/550-89 RESISTOR, CARBON KW 5% 1500 Rox, R30 4 00 8 90/550-89 RESISTOR, CARBON KW 5% 1500 Rox, R30 5 00 90/550-89 RESISTOR, CARBON KW 5% 1500 Rox, R30 6 00 90/550-30 Rox, R30 5 00 90/550-31 Rox, R30 8 00 90/550-31 Rox, R30 8 00 90/550-31 Rox, R30 8 00 90/550-31 RSSISTOR, CARBON KW 5% 22KO R21-R23-R38 6 00 90/550-33 RESISTOR, CARBON KW 5% 22KO R21-R23-R38 6 00 90/550-33 RESISTOR, CARBON KW 5% 22KO R21-R23-R38	2 2 98 B 90/550-08 RESISTOR, CARBON LAW 5% 3601 RM, R30 4 4 00 B 90/550-89 RESISTOR, CARBON LAW 5% 470 R3 4 4 00 B 90/550-89 RESISTOR, CARBON LAW 5% 1501 RM, R3 36 5 5 02 90/550-89 RESISTOR, CARBON LAW 5% 1501 RM, R3 36 5 5 02 90/550-38 3300 RM, R3 400 R3 800 R		1		-	0	CERAHIC	H.F.	C64		
1 99 B 90 1550 - 56 RESISTOR, CARBON 14W 5%, 470 R36.36 4 00 B 90 1550 - 89 RESISTOR, CARBON 14W 5% 1500 R10.35.36 4 00 B 90 1550 - 14 5 00 B 90 1550 - 14 6 00 B 90 1550 - 38 7 00 B 90 1550 - 38 8 00 B 90 1550 - 38 7 00 B 90 1550 - 18 8 00 1550 - 18 8	1 1 99 8 901550-56 RESISTOR, CARBON 14W 5% 470 R3.336 4 4 4 4 00 8 901550-89 RESISTOR, CARBON 14W 5% 1500 R9.53.36 5 5 02 901550-14 5 6 03 901550-14 5 1 1 00 901550-38 6 8 00 901550-38 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		N	_	-	0	RESISTOR,	KW 5%	RN. K30		
4 00 B 90/550-89 RESISTOR, CARBON MW 5% 1500 Re, R. 35.36 4 00 A 90/550-74 5 00 90/550-74 6 00 90/550-38 7 00 80/550-31 8 00 90/550-01 8 00 90/550-38 4 00 B 90/550-38 6 00 B 90/550-78 8 00 90/550-78 8 00 90/550-83 9 00/550-83 1 KA Ru, 31-823.83 6 00 8 90/550-78 8 00 90/550-78	4 4 4 00 B 901550-89 RESISTOR, CARBON 14W 5% 1500 Re, 6.0.145 5 5 002 901550-14 5 6 003 901550-38 1 1 1004 901550-38 5 5 005 901550-38 6 8 004 901550-38 7 1 KO Re, 1.31-34,445 4 4 07 1 901550-38 6 6 008 B 901550-38 7 1 KO Re, 1.31-34,4458 7 1 KO Re, 1.31-34,445		1	-	-	1550	RESISTOR,	14W 5%	73		
4 02 1 9015.50-52 2200 R4,6.11.45 5 02 9015.50-74 6 03 9015.50-74 5 03 9015.50-38 7 0015.50-38 5 05 9015.50-31 8 06 9015.50-31 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	# 4 out # 90/5.50-52		4	_	_	1550-	1570R.	4W 5%	Pre. 19.35.36		
5 / 02 901550-14 3300 Rive,5.20,27 470.0 Rive,5.20,27 5 / 02 470.0 Ret 5 / 02 550-38 5 / 02 550-31 5 / 02 5 / 02 5 / 02 5 / 02 5 / 02 5 / 02 5 / 02 5 / 02 5 / 02 5 / 02 5 / 02 5 / 02 5 / 02 5 / 02 5 / 02 5 / 02 5 / 02 6 /	5 5 02 90/550-14 3300 R12,5.2037 6 6 03 90/550-38 470.0 R24 5 5 02 90/550-31 5700 R24 5 5 02 90/550-31 784 6 6 08 9 90/550-01 78 RESISTOR CARBON MW 5% 22K0 MAINSTERS BITE BATE BATE BATE BATE BATE BATE BATE BA		10	-		1550-			24,16,19,45		
6 103 901550-58 4700 REGISTOR SESTOR RELIGIOR SESTOR SESTO	6 6 403 901550-58 5100 R74 1 1 100 901550-38 5100 R74 5 5 05 901550-31 6800 R8 11.31-39,4457 6 6 08 8 901550-18 RESISTOR CARBON KW 5% 2.2K0 R21-R23-R35 5 100 R3 05 901550-18 RESISTOR CARBON KW 5% 2.2K0 R21-R23-R35 5 100 R3 05 R3 05 C V V V V V V V R21-R23-R35 5 100 R3 05 R3 05 C V V V V V V R31-R23-R35 5 100 R3 05 C V V V V V V V V V V V V V V R31-R23-R35 5 100 R3 05 R3 05 C V V V V V V V V V V V V V V V V V V		10	_	12	1		3300	R1.2,5.20,37		
1 vad 901550-38 5 vas 901550-31 8 vab 901550-01 4 va7 901550-53 6 vas B 901550-18 RESISTOR, CARBON WW 5% 2.2KII reconsistences	1 1 1 1 1 1 1 1 1 1		9	-	23	1550-		4700	R27,18,47,50,55,57		
5 05 901550-31 8 106 901550-01 4 107 901550-53 6 08 B 901550-18 RESISTOR, CARBON KAW 5% 2.2K12 MARKASINGS	5 5 05 05 001550-31 6800 6800 89,839-842 8 8 06 901550-01 1 K. R.		1	_	Z	1550-		5100	K24		
8 106 901550-01 1 KA RE.II.31-34,4458 4 107 901550-53 2 KA RZI-KR3.R38 6 108 B 901550-18 RESISTOR, CARBON 14W 516 2.2 KA MANDER SIGNER	## # # # # # # # # # # # # # # # # # #		5	$\overline{}$	150	1550-		6800	R9. K39-R42		
4 107 9 90 1550-53 2 KA RESISTOR, CARBON KAN 5% 2.2KA MANASINGSO	4 4 107 1 901550-53 1 2 KD RZI-KR3.R38 2		8	_	90	01550-		1 Ku	R6,11,31-34,44,5		
6 WB B 901550-18 RESISTOR, CARBON KAW 5th 2.2KIL DAMMENSES	EMBINEERRING OF R 1907 110 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 10 10 10 10 10 10 10 10 10 10 10 10		4	-	27 1	01550-			RZ1-KZ3, R58		
	EMBINEERRING DOR ASSY 11/2 15 10 DRAWN BY: DATE SIZE		9	_	8 B	0/550-	CARBO	14W 5%	PH/574,51,62,56	1	

# PART NUMBER # 90/550-69 RESISTOR, CARBON # 90/550-07 RESISTOR, METAL, CARBON # 90/751-43 RESISTOR, METAL, OXIDE # 90/751-45 RESISTOR, METAL, OXIDE # 90/5600-02 SCREW, PAN, HEAD # 90/5600-02 SCREW, PAN, HEAD # 90/5600-02 SCREW, PAN, HEAD # 90/5600-03 NUM, FAN, OXIDE # 90/5617-02 TUBE VINYL, #3	RESISTOR, CARBON RESISTOR, METAL ON RESISTOR RESISTOR, METAL ON RESISTOR	REF. DES	154, 15KR RAB	22KA K7	7	DE 441/4 910 AS	1% 1000	18 150a	1% 9.1 KU RICKIS			917-217'97-27					ATOR	HEAT SINK			(x/O	WASHER M3		"Sam							WV. DAYE SIZE
8 9015 8 9015 8 9015 8 9017 8 9017 8 9022 8 9022 8 9022 8 9034 8 9035 8 9055 8 9055 8 9055 8 9055	20-69 0-69 0-69 0-07 0-02 1-44 1-44 1-43 1-43 1-43 1-43 1-43 1-44 1-45 1-02 1-02 1-03	DESCRIPTION	CARBON		RESISTOR, CARBON YAN	RESISTOR, WETAL OXIL	RESISTOR, METAL OXIDE A	HETAL OXIL						1-1	CA	SINK	SINK	THER FOR			HEAD	RNAL TOOTH	HEX.	VINYL				100000		100	
20 0000 0000 0 0000 0 000 0 0 0 0 0 0 0	90155 90155 90155 90175 90175 90175 90175 90175 90175 90175 90175 90175 90175 90175 90175 90175 90175 90175	PART NUMBER	1 1	1 4	90,550-07	901751-43	901751-18	901751-44	1			90.3025-01		4022048	4022047	1540023	1540011	V22 11			20-008906	805655-03		905477-02							
The state of the s			_	-		100		-	-	7 8	0	 	23.5	-	_	_	_	82	2 2	72	-			100	-	35	20 :	12	77	p	

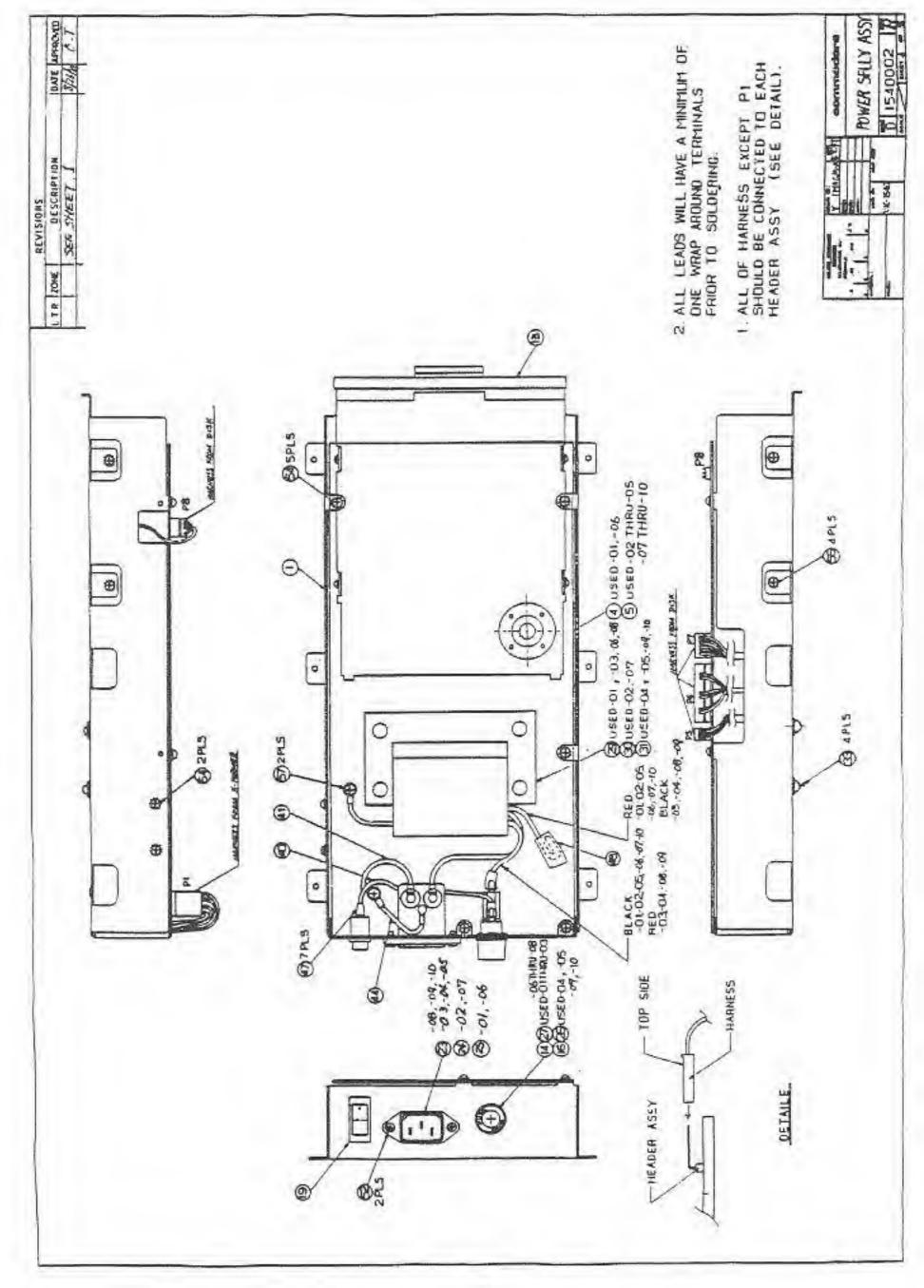




PART NO.	DESCRIPTION	A Pholy PHODING RELEASE 157
540002-01 p	POWER SUPPLY ASSY VIC-1946 UL	B CHANGED FILTER POWER CONNECTOR PAR CSA 7.7 () C SA (CHANGED FILTER POWER CONNECTOR PAR FCC 7.7 ()
		CHANGED ACCESSORY OF CHUNGED SCREW TO N3-6 FR ADDED DASH OF THEY 10 AND ADDED THEY 8,9 AND 63. ADDED SHEET 5 OF 5.
90-	VIC-1541 UL	6 26 th REVISED PER ECO 830060 H HS/5/k3 REVISED PER ECO 830101
		4. NO CHANGE RIY FOR ITEM SA IF USED ITEM 6 OR 7. 3. USE ONLY WHEN USED ITEMB OR 9.
		2. IF ITEM 8 OR 9 ARE USED THEN OTY FOR ITEM 54 WILL CHANGE FROM 7 TO 9 PCS AND USED WITH ITEM 63. 1. SHEET 4 \$ 5 OF 5 ARE D-SIZE 2. IF ITEM 8 OR 9 ARE USED THEN 54 WILL
		NOTES.
cbm ENGINEERING	POWER SHEPLY IS TO WE IN THE PERSON	(2. 37/9) SATE SIZE 1540002- 1 5

	MGTI	's 'a	PART NUMBER	DESCRIPTION	REF. DES	CMSH	NOTES
10 08 08 07 06 05 04 03 03 01	-	-	-				and the second second second second second
8	- (1540012	POWER CHASSIS			SUBSTITUTE FOR LIEM? . SEE NOTE
7	NG	0	25/153	POWER CHASSIS		I	SEE NOTE 3
VC.	1	8	1540001 -01	PCB ASSY (FCC) UL			
	5	10	1540001	ASSY			
S	9	30	1540001 -	PCB ASST (FCC) UL			SUBSTITUTE FOR ITEM B
	1	8/0	1540001 -04	ASSY			KR ITEM
-	8	-					C ARRAY
	0,0	60	1540048-	AssY			USED LOGIC ARRAY
v	- 0	- O	125519 -01	CLOUDY NICK (BLACK)			SIBSTITUTE TOP ITEM IS
i	-	_	1	NICK			
<u> </u>	114	8	903614 -01	I DER FI			
	2	_					
	16	B 2	903615 -01	FUSE HOLDER FH 033			
[]-[- - - - - - - - - - -	B (C) (C)	904509 -01,	SWITCH, BOCKER	SW I		
S	\$ 25	00	325552-01	FILTER POWER COUNECTOR			SUBSTITUTE FOR ITEM 23 (TOKIN
	22	CUM					TOR ITEM 23
	3125	n)	1903467	OB ELLTER DOWER COMMECTOR			SUBSTITUTE FOR THEY 23 (HWM1 PA-126
	in in						576x 20mpt
	2/2	7 8	903555 -20	FUSE, SLO BLO 250V 1.0A			3 8 X
- si	18 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	wo	1540009 -01 1540009 -02	POWER TRANSFORMER SPN 120/000/ POWER TRANSFORMER CSA	FF		
4	4 888	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	325548-04	SCREW PW HEAD WITH SPRING WASHER MS-10		543	TO BE ATTACHED WITH X-FORMER
	i M) IO					
c b m ENGINEERING	Ē	Dan	Dane Challey ACTV	C. V.			177 B 1540002- 2

Marri Rearri
PART NAMBER
DESCRIPTION
REF. DES
MOTES



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